

WHAT IS CLAIMED IS:

1. A fuel cell, comprising:
 - a first substrate provided with a gas flow path for supplying a first reaction gas;
 - a first electron collection layer formed on the first substrate;
 - a first reaction layer formed on the first electron collection layer;
 - an electrolyte film formed on the first reaction layer;
 - a second reaction layer formed on the electrolyte film;
 - a second electron collection layer formed on the second reaction layer; and
 - a second substrate provided with a second gas flow path for supplying a second reaction gas,

wherein at least one of the first electron collection layer and the second electron collection layer is constructed by stacking conductive material particles.
2. The fuel cell according to Claim 1,
 - wherein at least one of the first reaction layer and the second reaction layer is constructed by stacking metal particles.
3. A method of manufacturing a fuel cell, comprising:
 - a first gas flow path forming step of forming a first gas flow path for supplying a first reaction gas in a first substrate;
 - a first electron collection layer forming step of forming a first electron collection layer for collecting electrons generated by reacting the first reaction gas supplied through the first gas flow path;
 - a first reaction layer forming step of forming a first reaction layer for reacting the first reaction gas supplied through the first gas flow path with catalyst;
 - an electrolyte film forming step of forming an electrolyte film;
 - a second gas flow path forming step of forming a second gas flow path for supplying a second reaction gas in a second substrate;
 - a second electron collection layer forming step of forming a second electron collection layer supplying electrons with which a second reaction gas supplied through the second gas flow path reacts; and
 - a second reaction layer forming step of forming a second reaction layer for reacting a second reaction gas supplied through the second gas flow path with catalyst,

wherein at least one of the first electron collection layer forming step and the second electron collection layer forming step comprises forming the electron collection layer

by applying material for forming the electron collection layer onto the first substrate or the second substrate at predetermined intervals.

4. The method according to Claim 3,
wherein the material for forming the electron collection layer is applied using a discharging device.

5. The method according to Claim 3,
wherein at least one of the first reaction layer forming step and the second reaction layer forming step comprises forming the reaction layer by applying material for forming the reaction layer onto the first substrate or the second substrate at predetermined intervals.

6. The method according to Claim 3,
wherein the material for forming the reaction layer is applied using a discharging device.

7. An electronic apparatus comprising the fuel cell according to Claim 1 as a power supply source.

8. A vehicle comprising the fuel cell according to Claim 1 as a power supply source.